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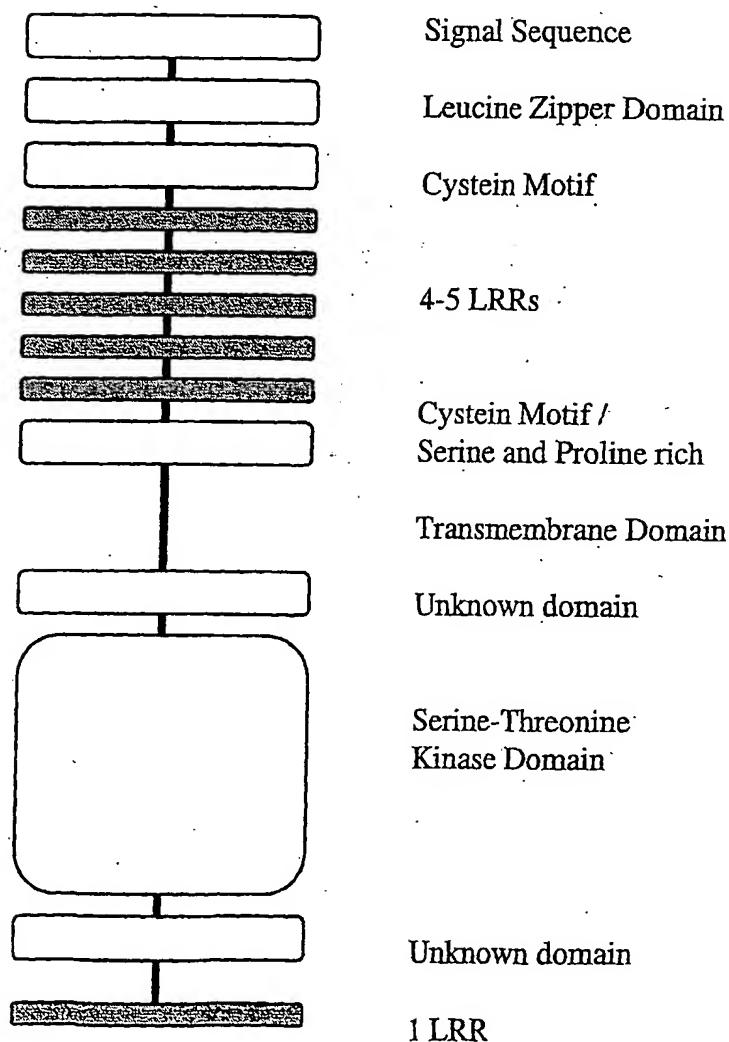
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Fig. 1

Different domains of RKS proteins



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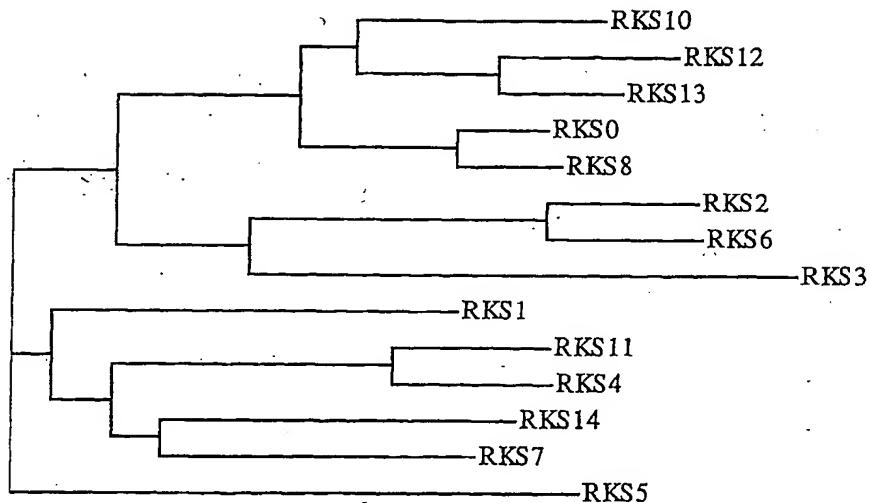
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Fig. 2

Developmental tree of the different Receptor Kinases like SERK (RKS) genes.



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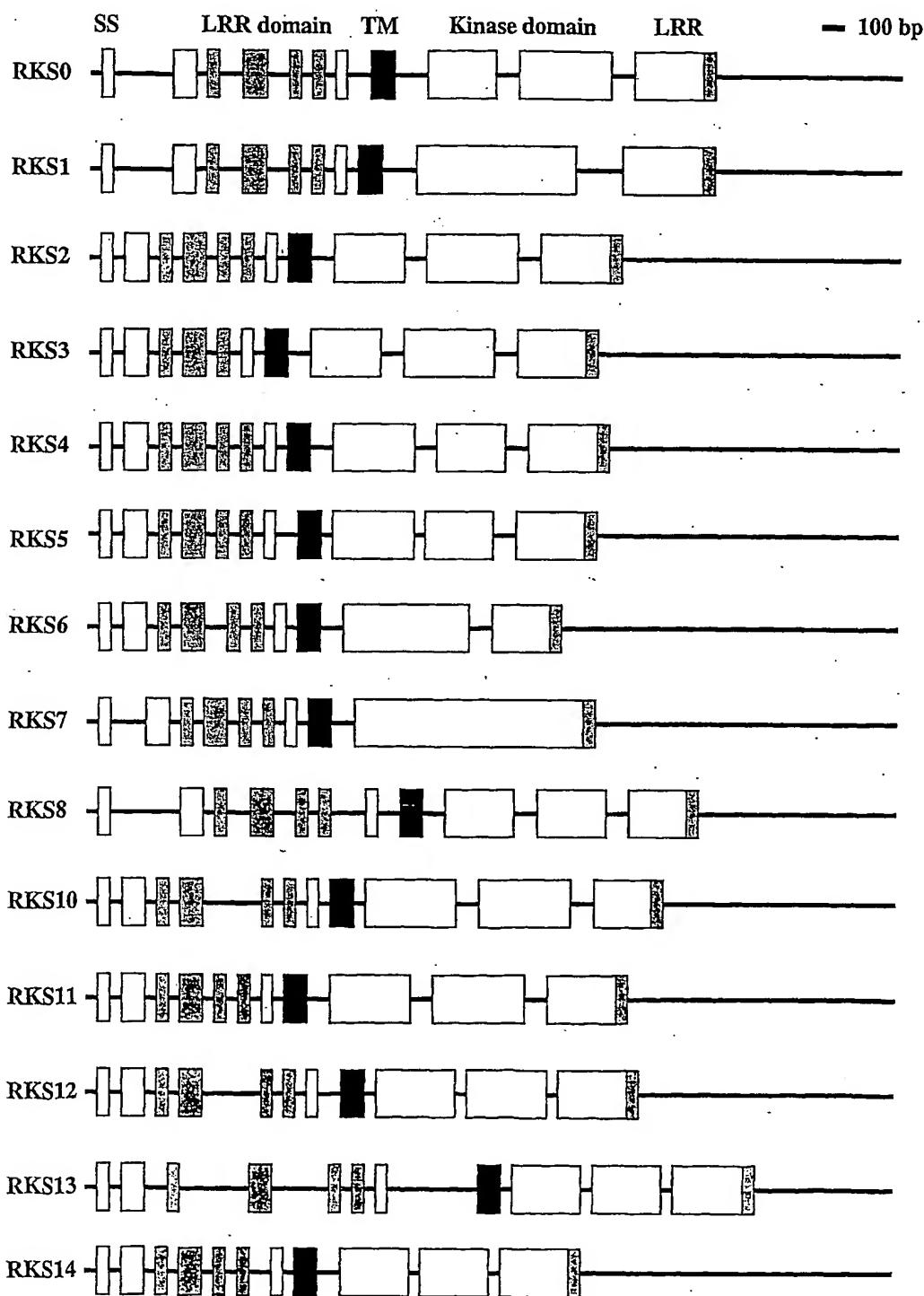
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Fig. 3

Intron-Exon structure of the RKS genes in *Arabidopsis thaliana* var. Columbia.  
SS signal sequence; LRR leucine rich repeat domain; TM transmembrane domain.



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Chromosomal location of RKS genes  
in *Arabidopsis thaliana*

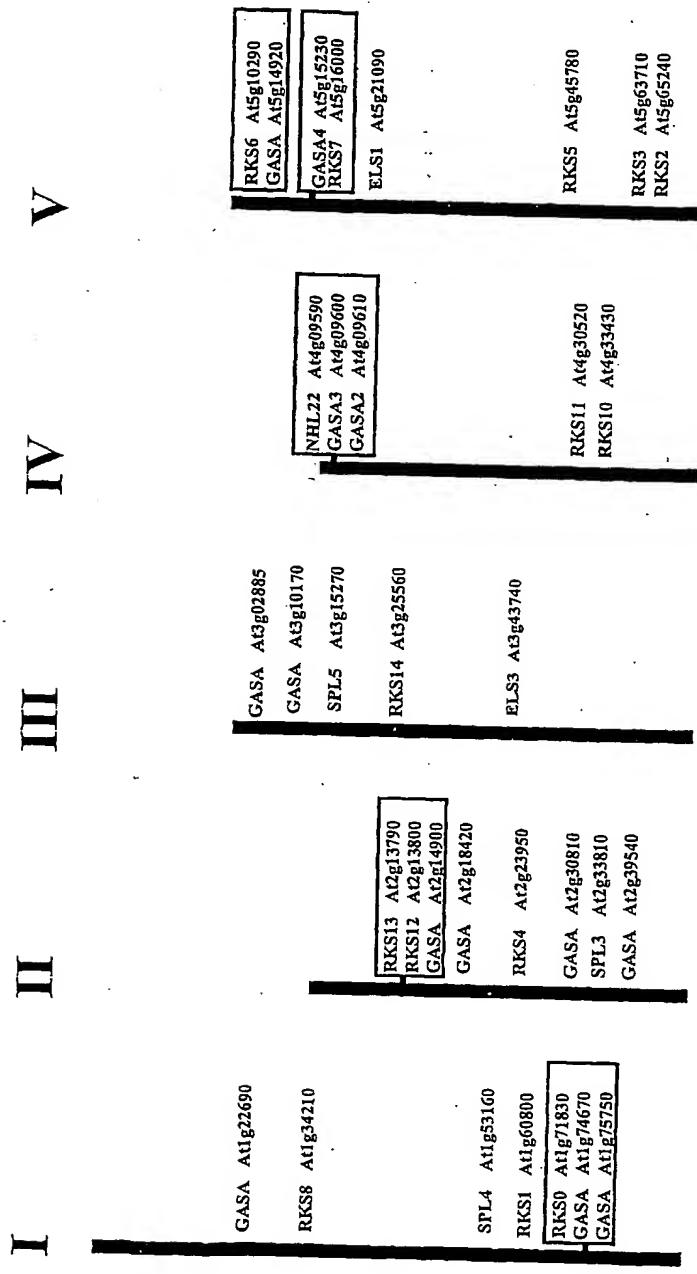


Fig. 4

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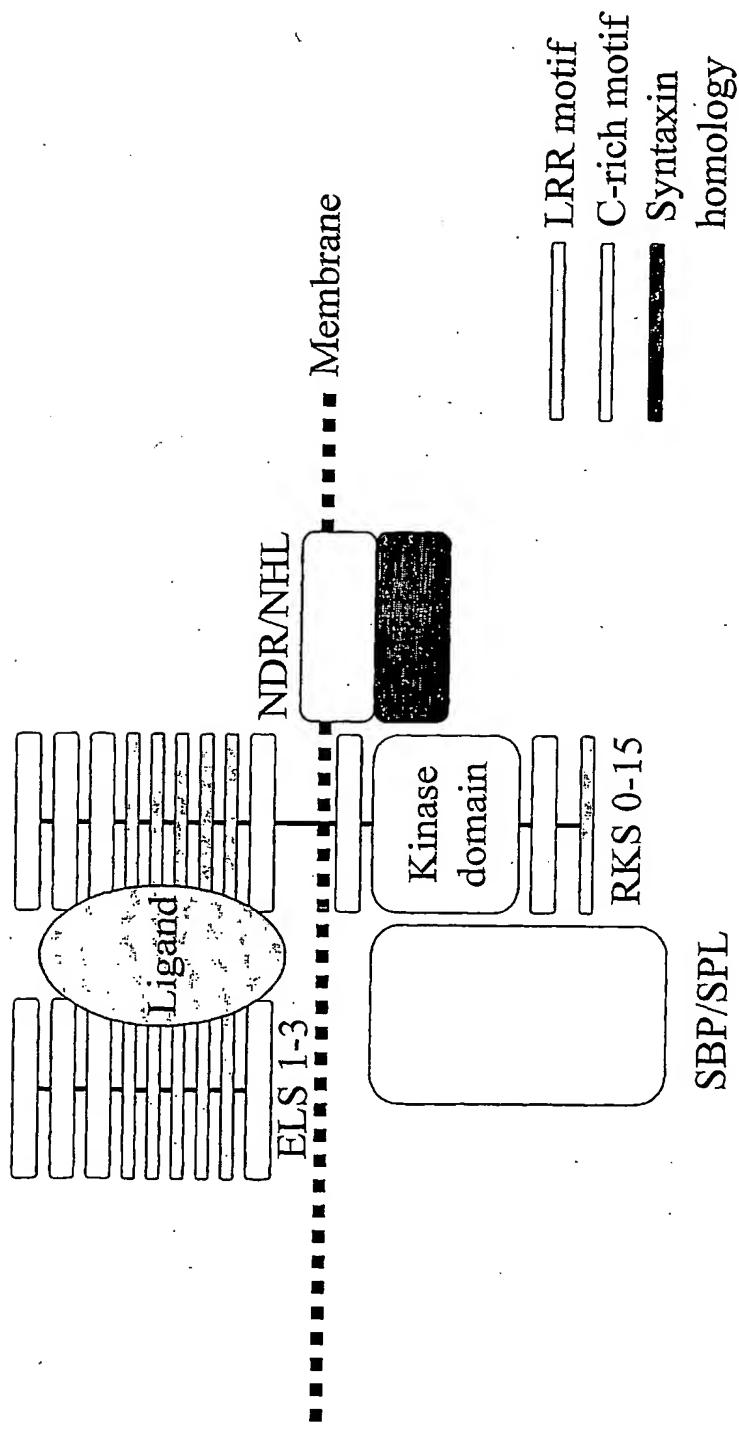
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Fig. 5

RK5-mediated signal transduction pathway in plants



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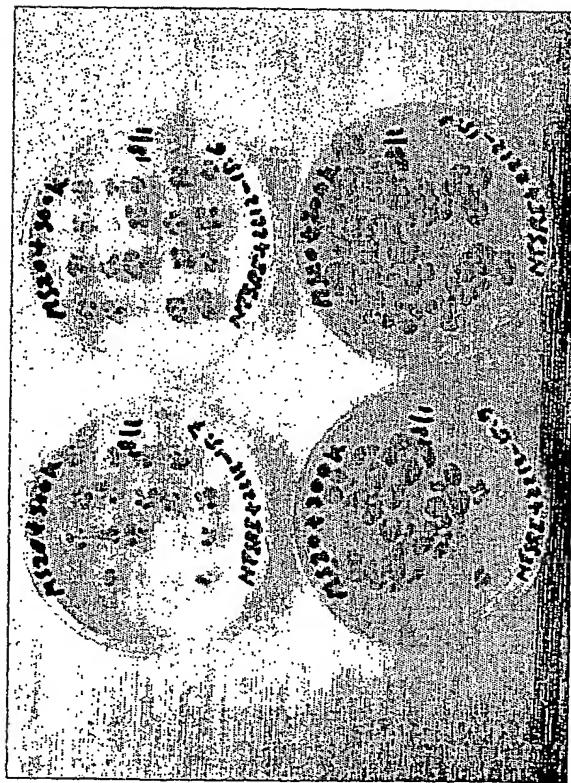
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Modifications in the expression profile of GT-RKS4 modulates organ size within seedlings of *Nicotiana tabacum*.

GT-RKS4 determines seedling size in *Nicotiana tabacum*.



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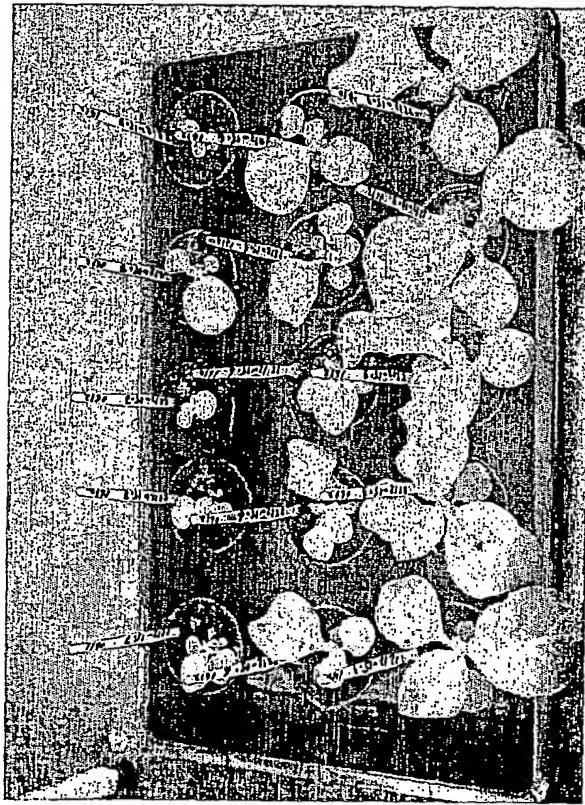
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Fig. 7

GT-RKS4 determines organ size  
in *Nicotiana tabacum*.



GT-RKS4-7S-T2

GT-RKS4-6S-T2

GT-RKS4-3S-T2

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Fig. 8

GT-RKS4 determines plant size  
in *Nicotiana tabacum*



Empty vector control



GT-RKS4-15S-6T2



GT-RKS4-15S-3T2



GT-RKS4-15S-7T2



GT-RKS4-15S-9T2

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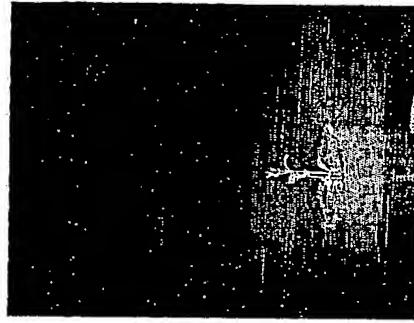
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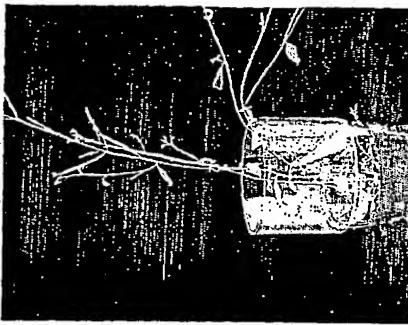
Fig. 9

Stable transformed GT-RKS4-antisense  
in *Arabidopsis thaliana*

GT-RKS4-16a



Wildtype WS



Overexpression of antisense GT-RKS4-1a  
reduces plant and organ size.

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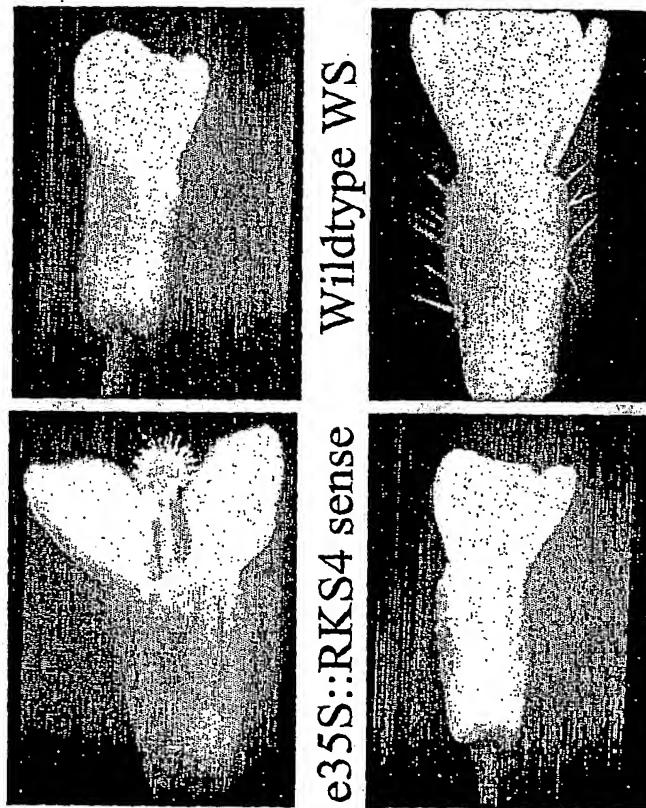
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Fig. 10

Ectopic expression of RKS4 and GASAA3 gene products both result in increases flower size in *Arabidopsis thaliana* WS



e35S::RKS4  
antisense  
e35S::GASA3 sense

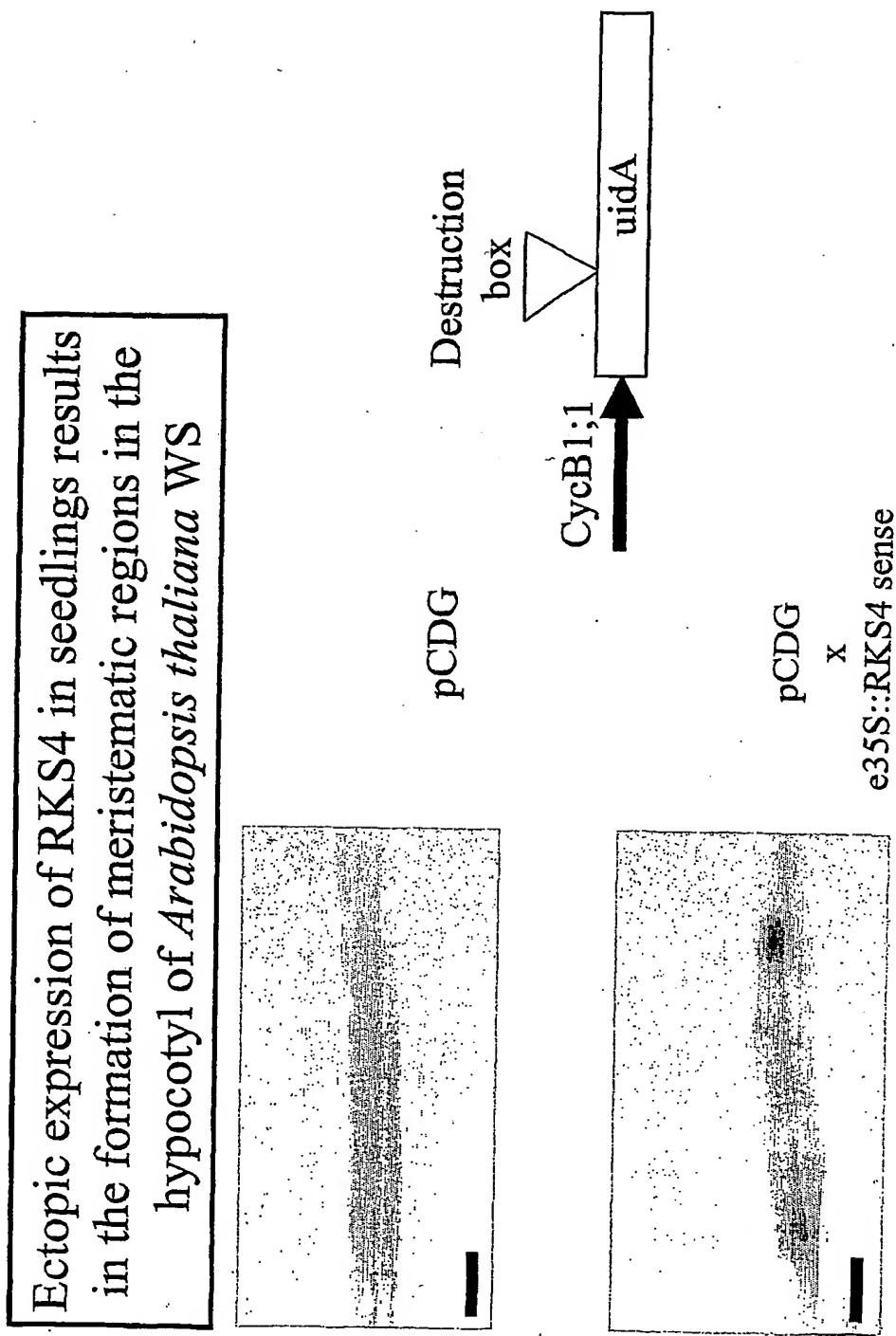
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Fig. 11



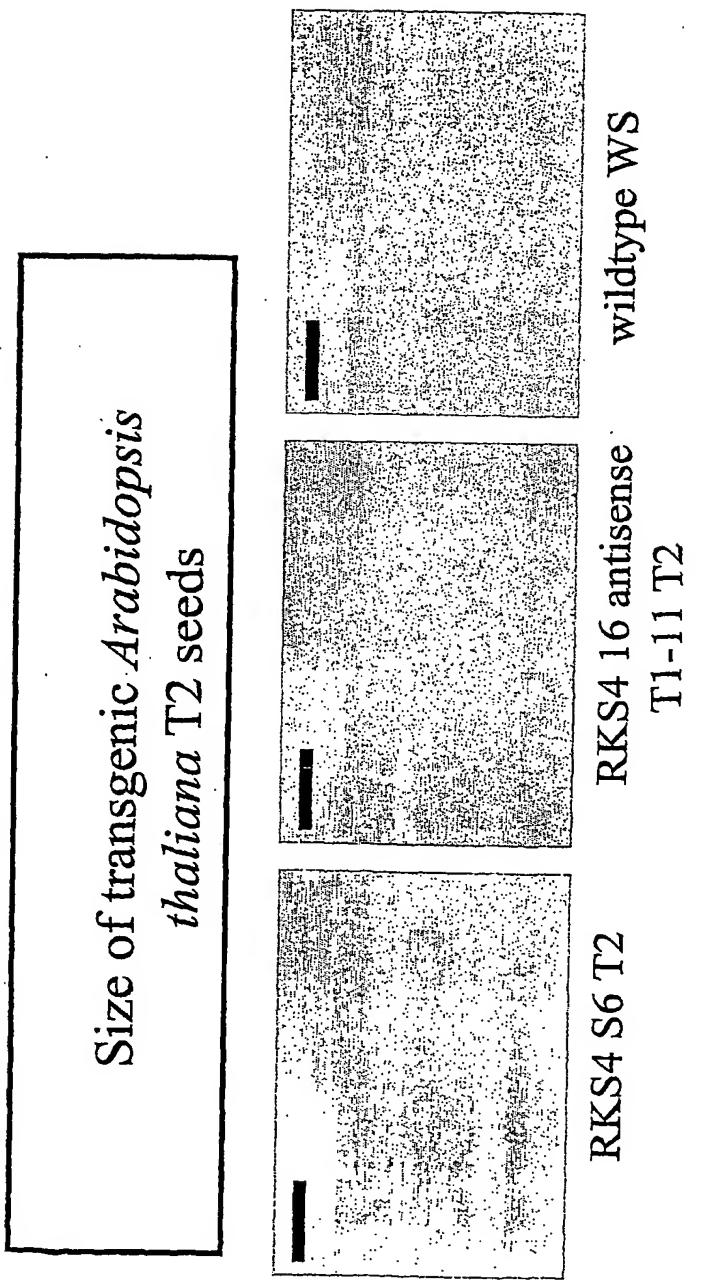
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Fig. 12



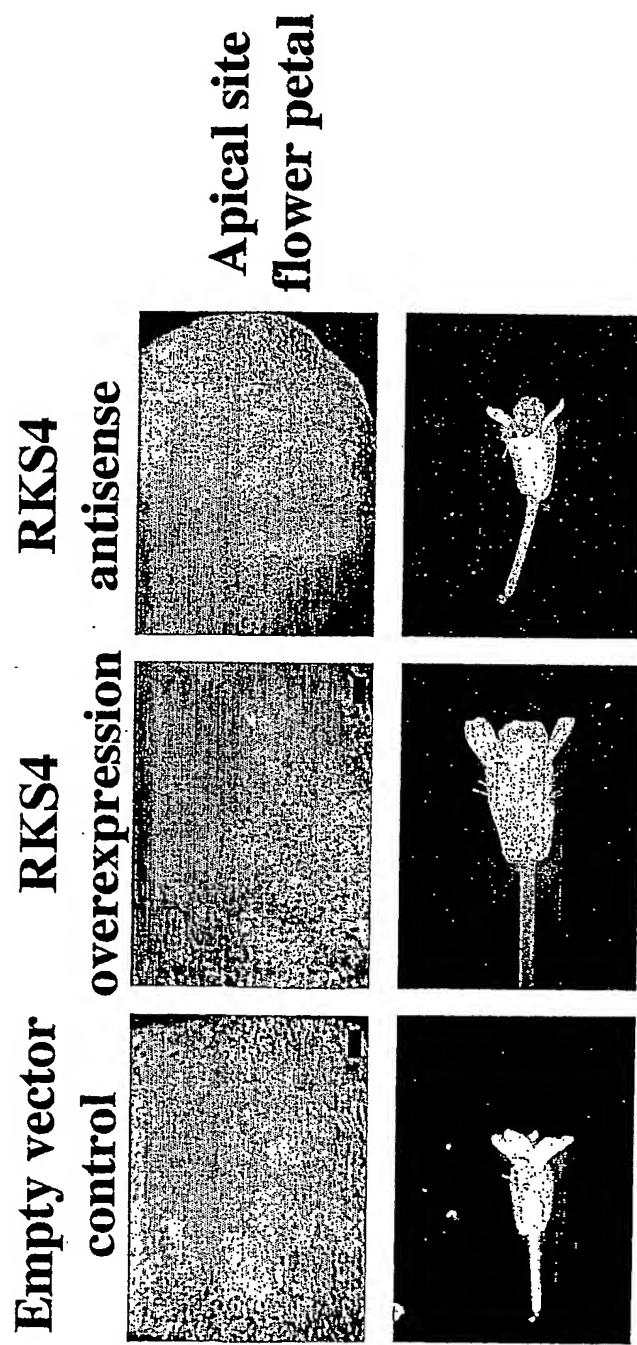
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Fig. 13



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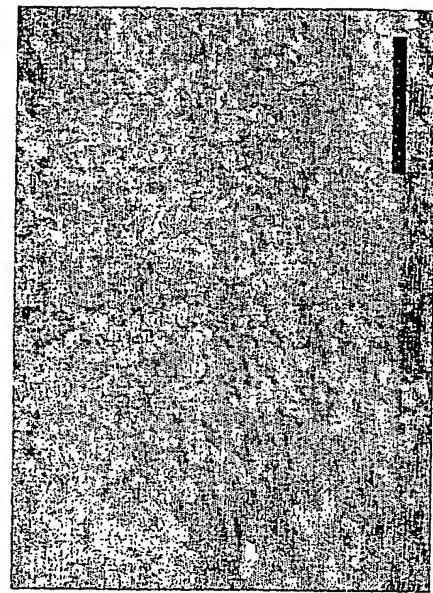
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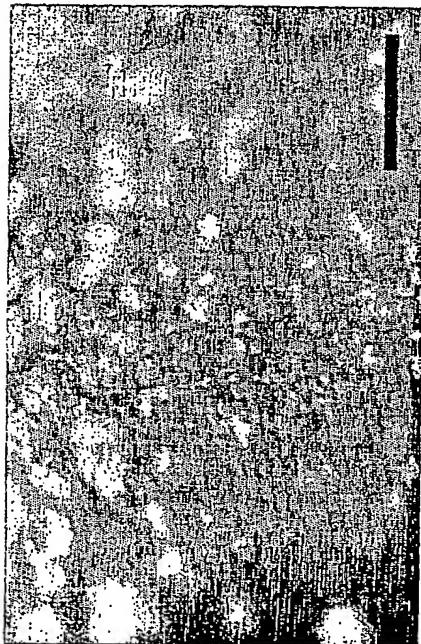
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Fig. 14

RKS10S T1-10  
results in a decrease in size  
of cotyl-like apical epidermal cells



RKS10S T1-10



pGreen 4K

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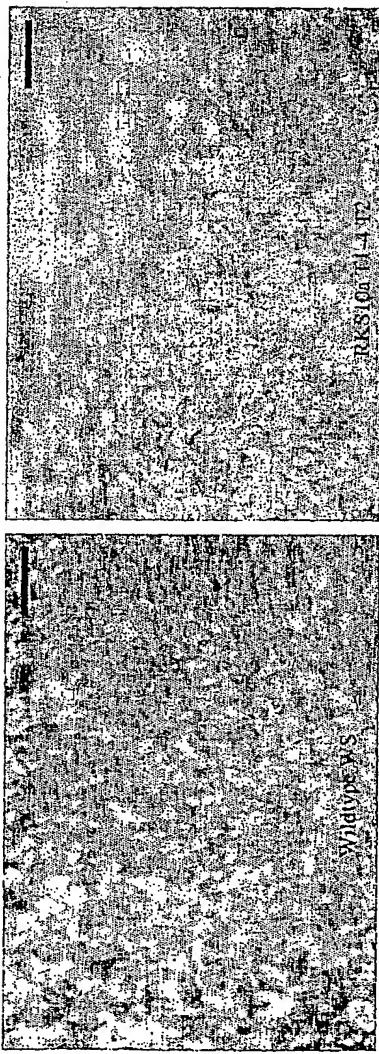
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Fig. 15

RKS10antisense T1-4  
results in an increase in size  
of the cotyl epidermal cells



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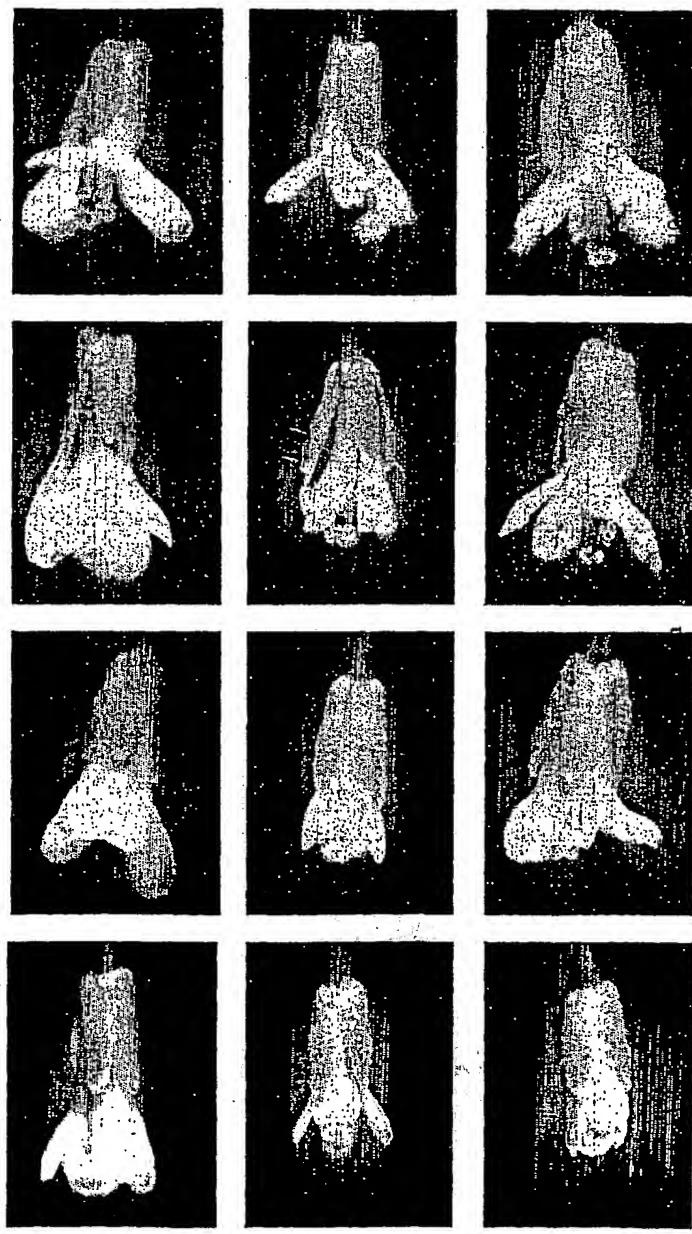
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Fig. 16

Flower development from the same  
influorescence in transgenic  
*Arabidopsis thaliana*



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Fig. 17

Regeneration potential of  
*Arabidopsis* transgenic seedlings.

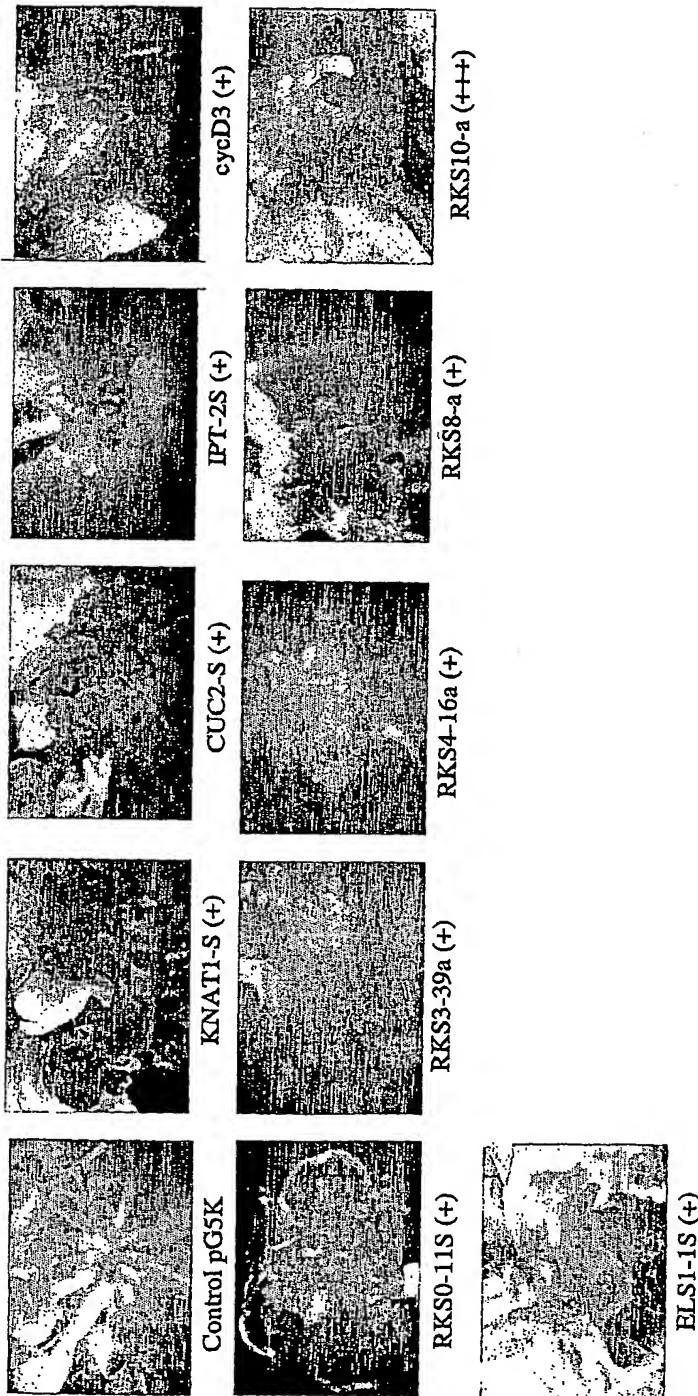


Fig. 18

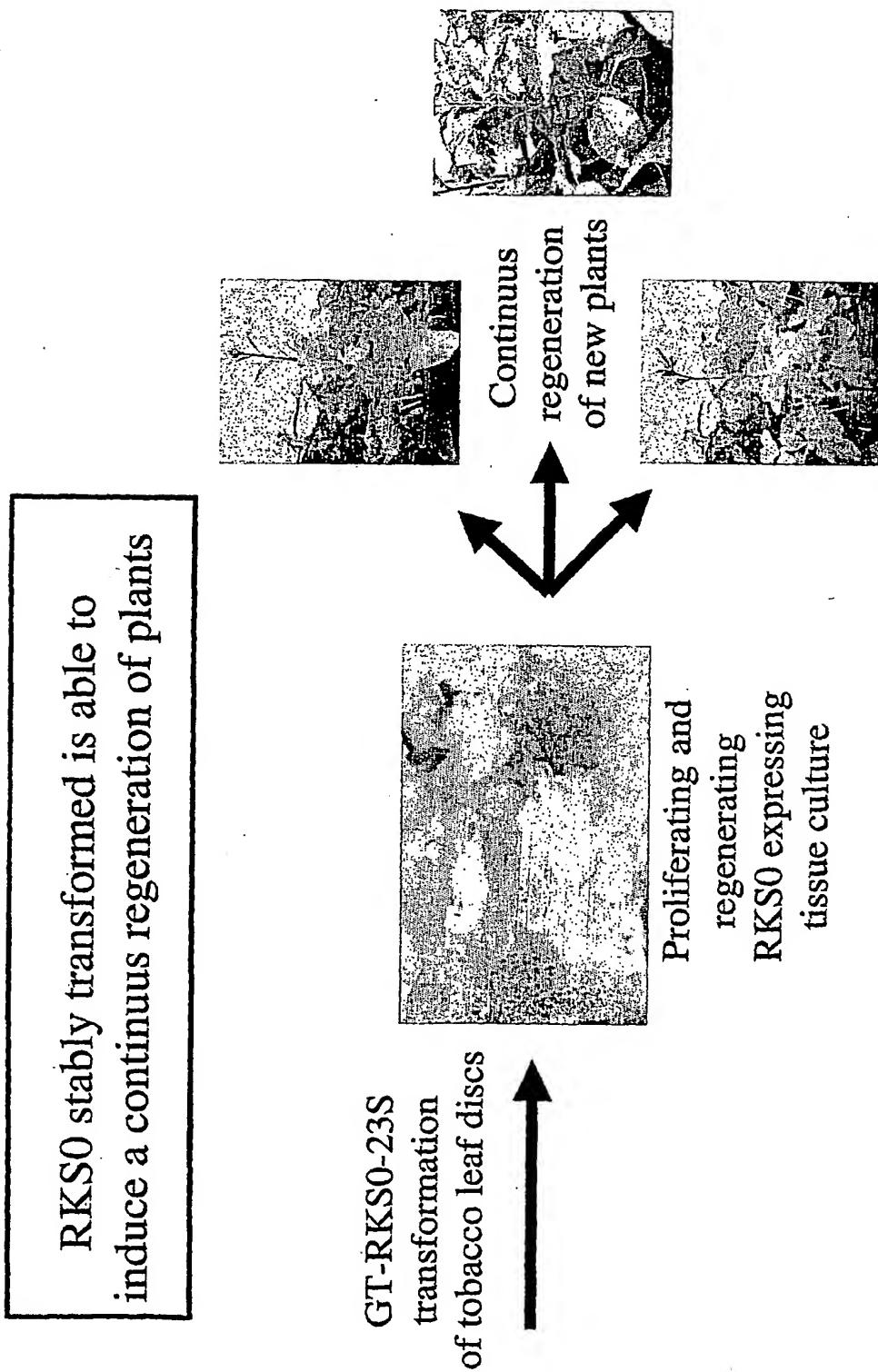
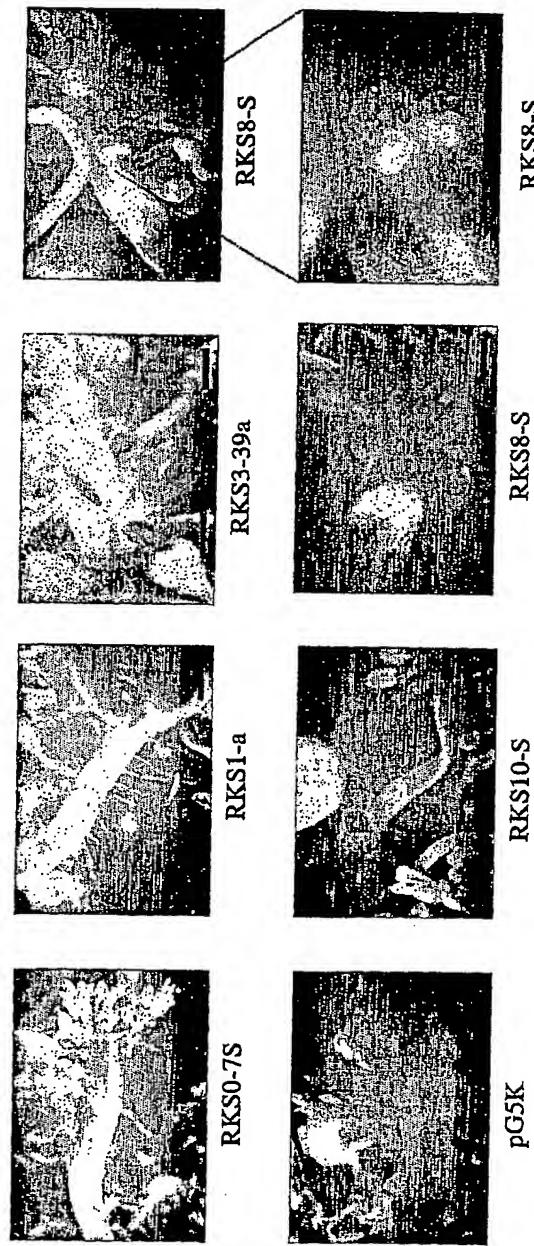


Fig. 19

Fasciation in transgenic  
*Arabidopsis thaliana*



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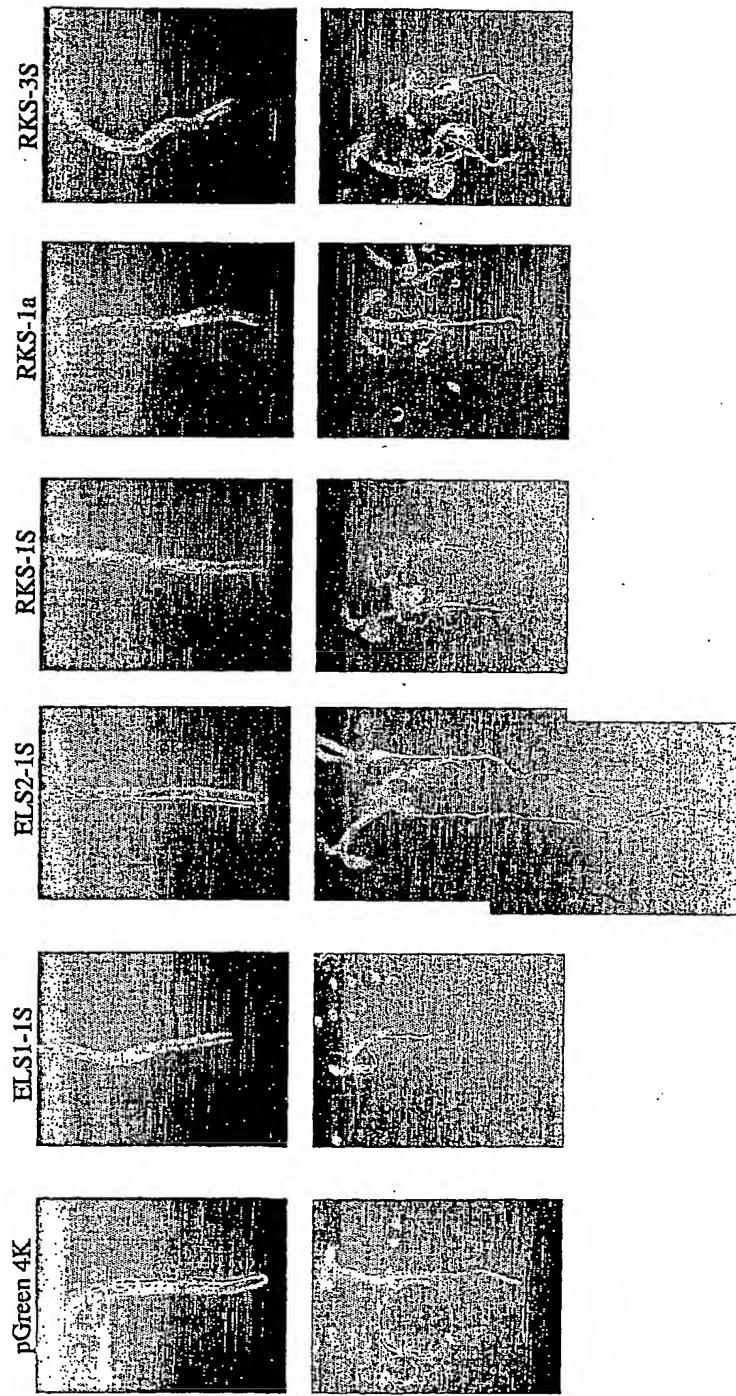
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Fig. 20

Root growth of transgenic  
*Arabidopsis thaliana*



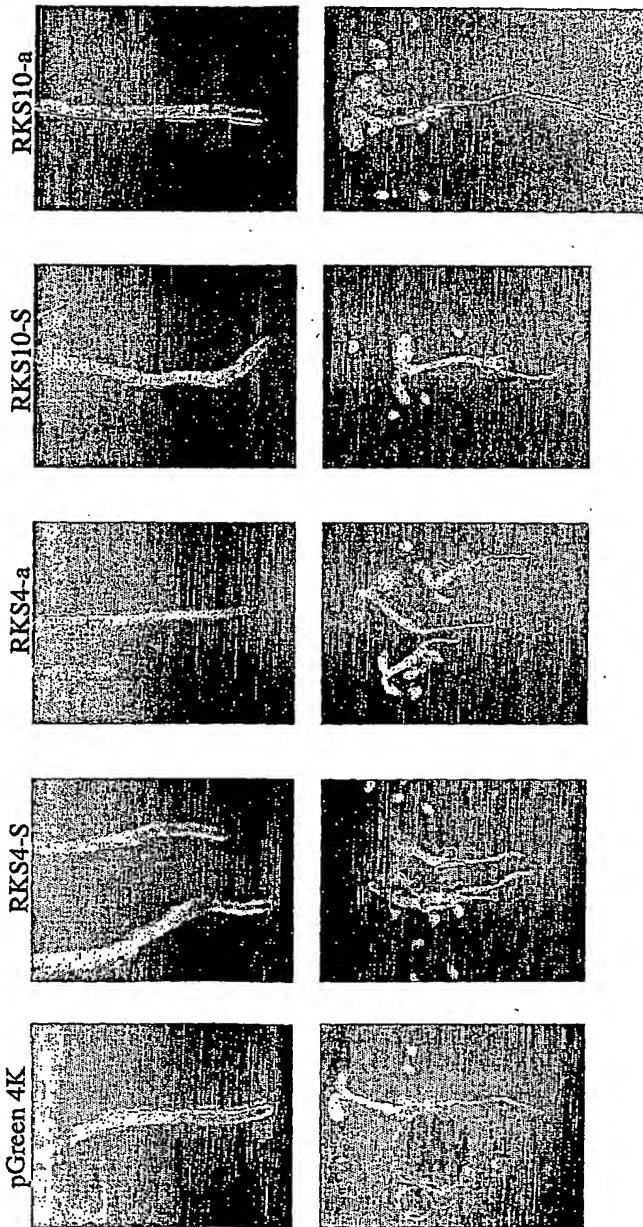
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Fig. 21

Root growth of transgenic  
*Arabidopsis thaliana*



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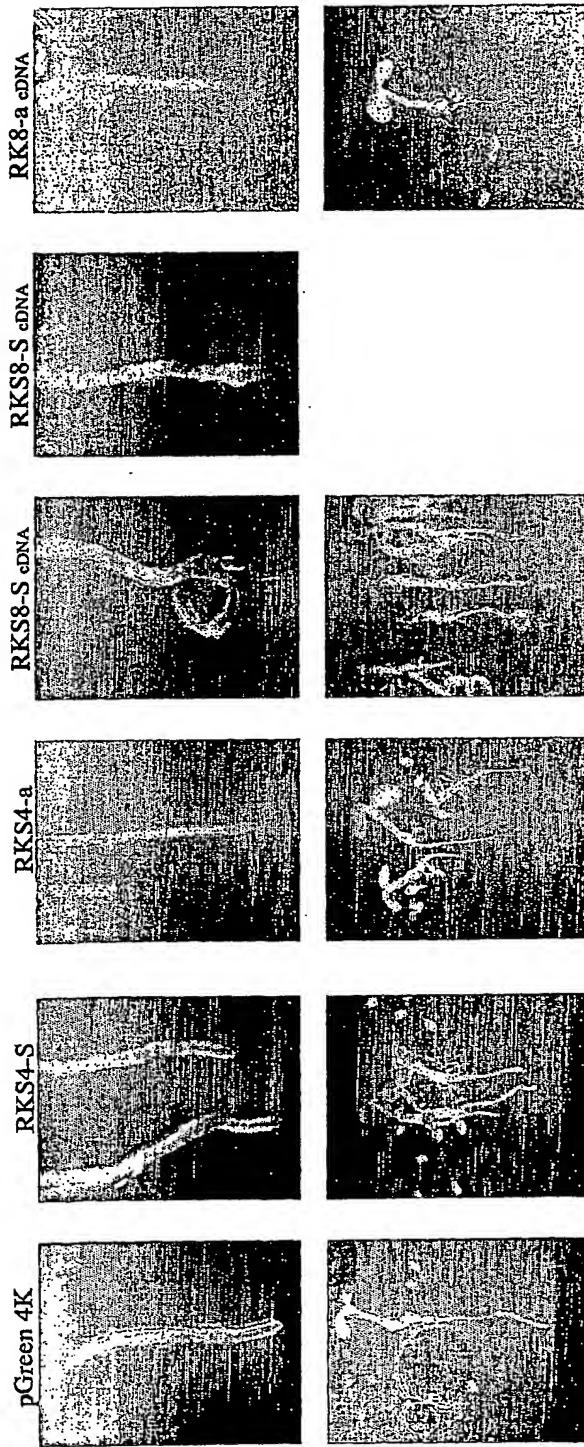
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Fig. 22

Root growth of transgenic  
*Arabidopsis thaliana*



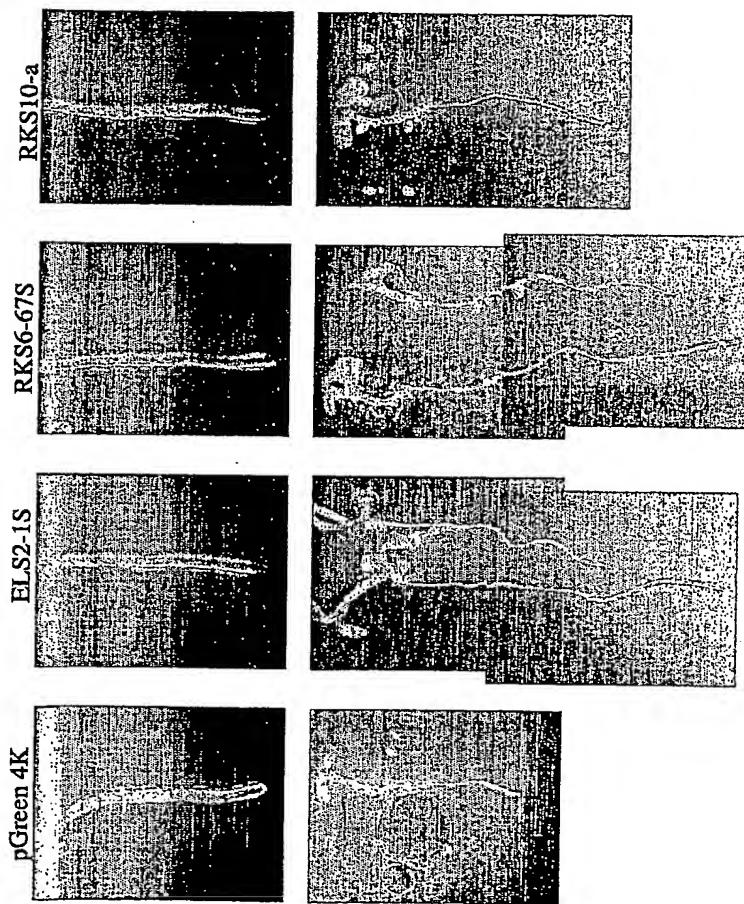
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Fig. 23

Root growth of transgenic  
*Arabidopsis thaliana*



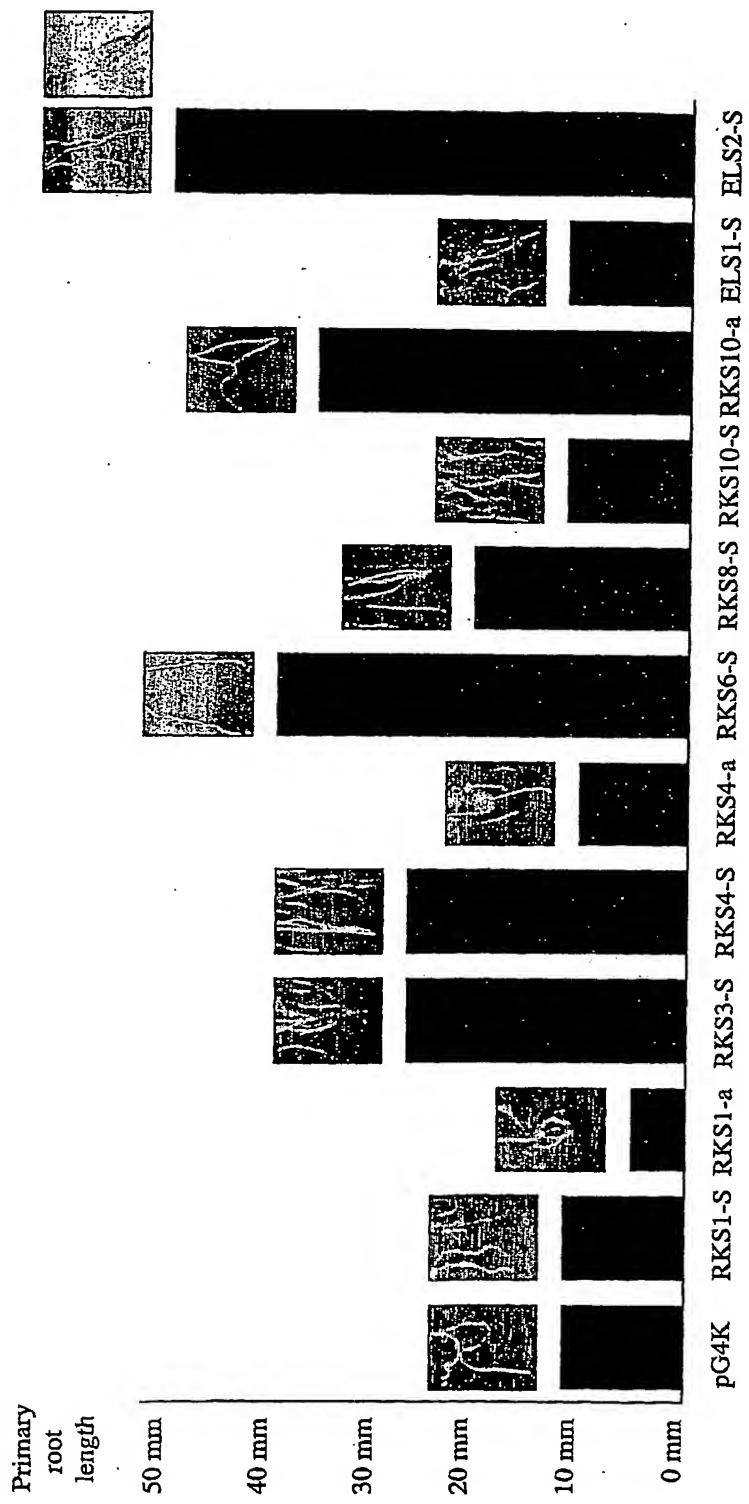
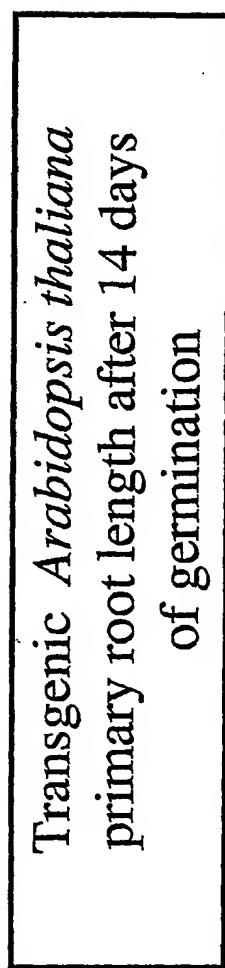
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Fig. 24



Transgenic construct

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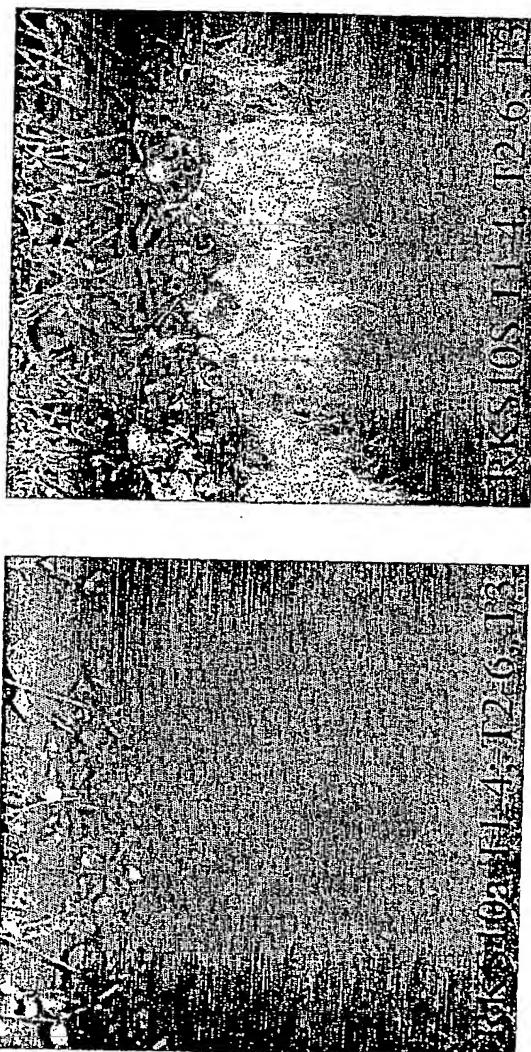
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Fig. 25

Effects of RKS10 transgenic constructs on plant development of 45 days old *Arabidopsis* WS



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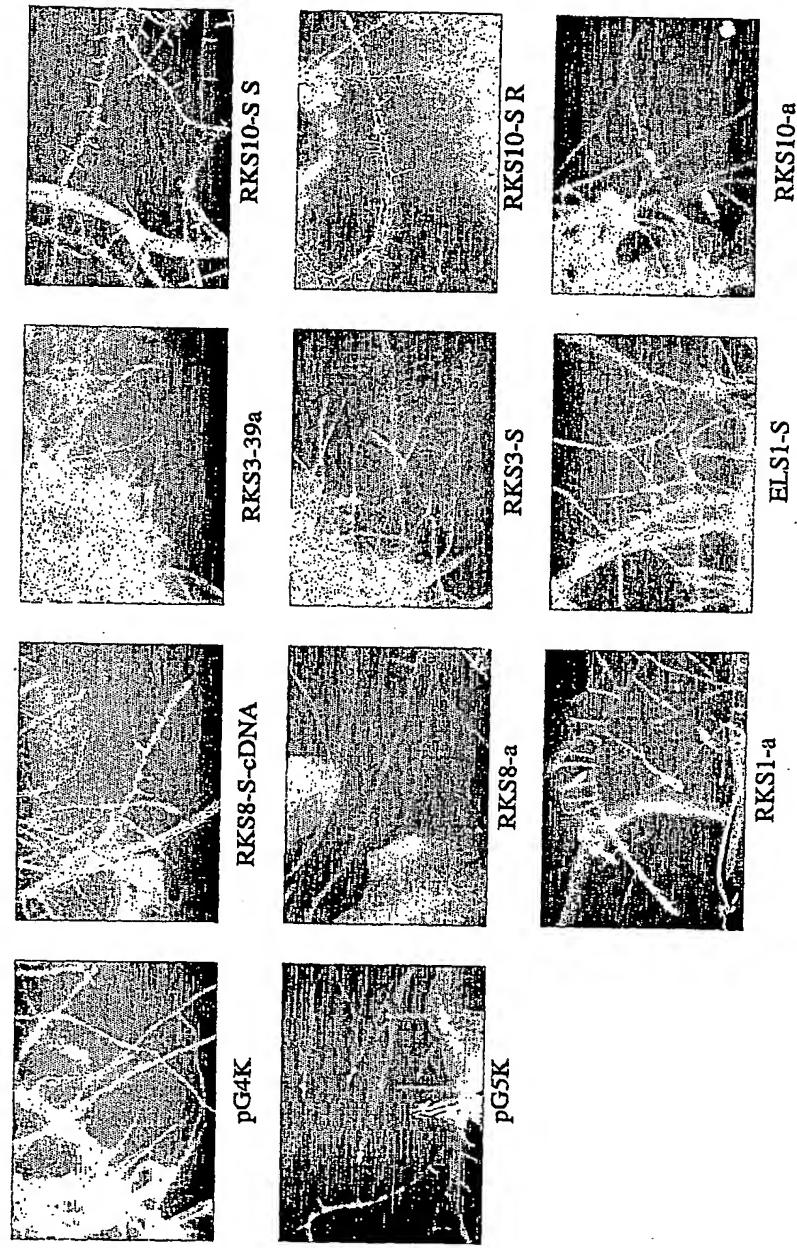
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Fig. 26

Roots of Transgenic  
*Arabidopsis thaliana*



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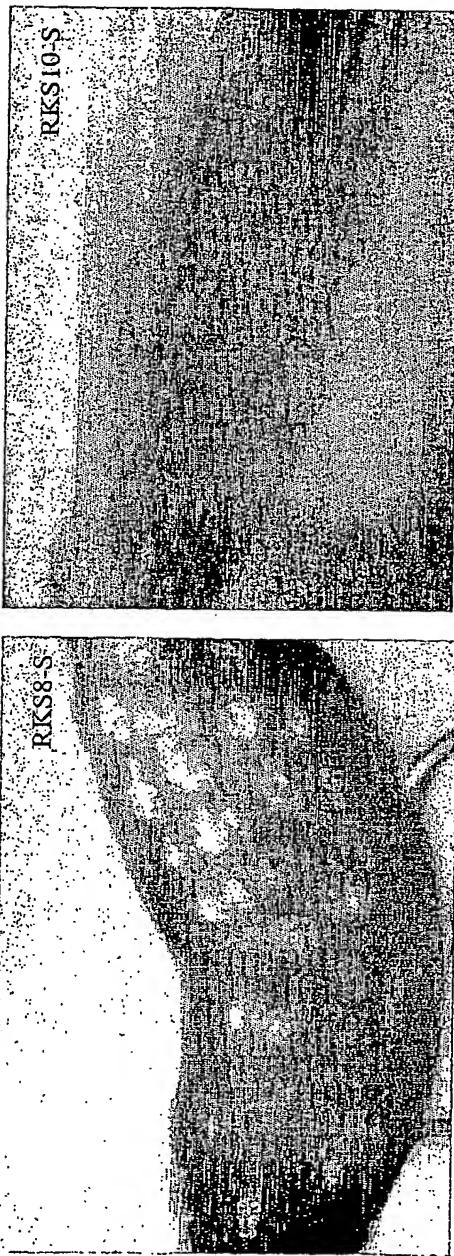
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Fig. 27

Root cells of transgenic  
*Arabidopsis thaliana*



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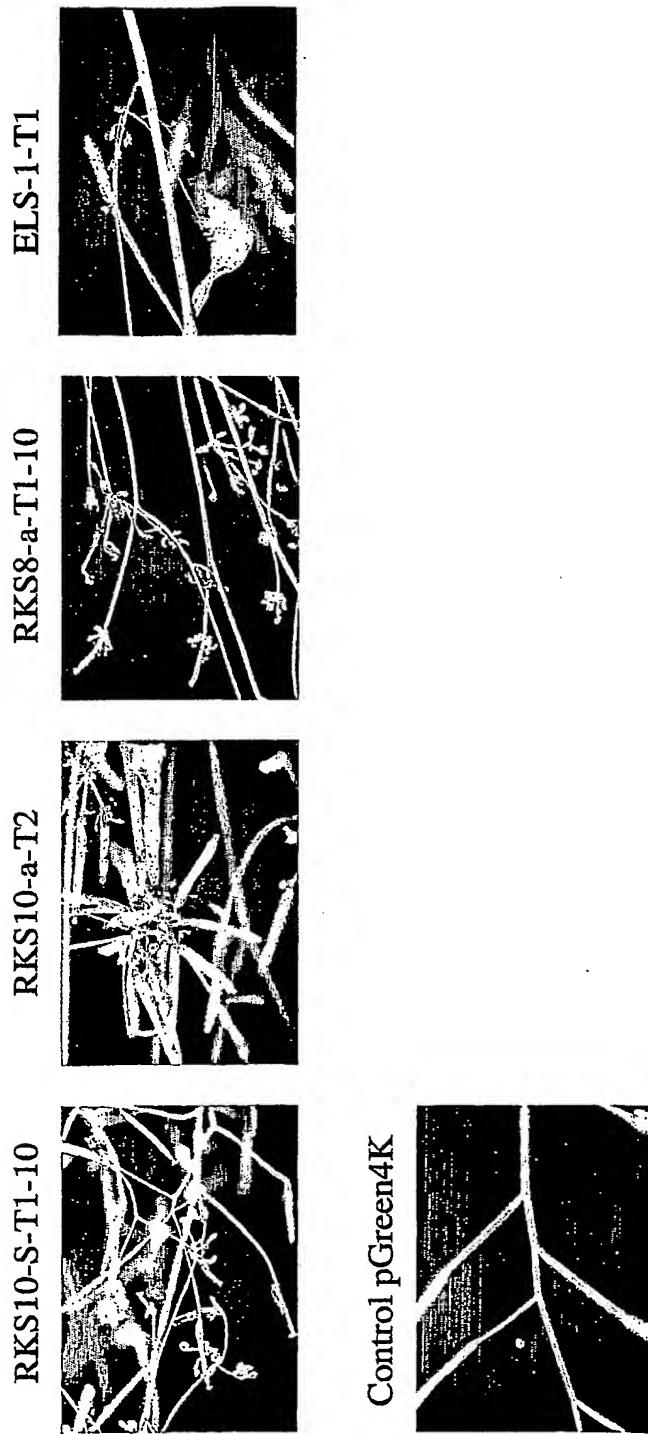
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Fig. 28

Influorescences of T1 transgenic  
*Arabidopsis* WS plants



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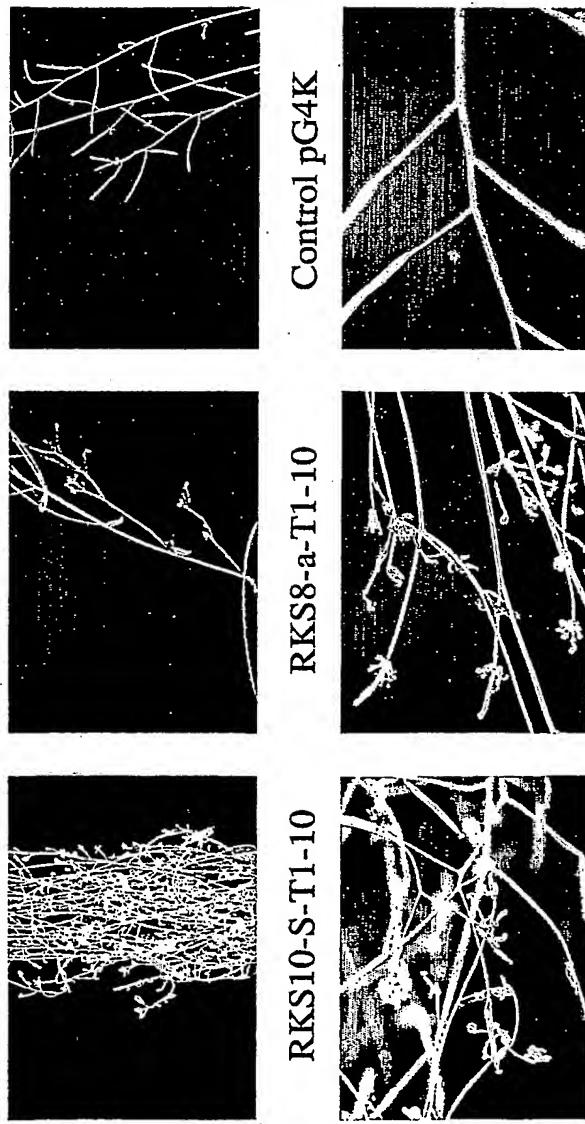
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Fig. 29

Influorescences of T1 transgenic  
*Arabidopsis* WS plants



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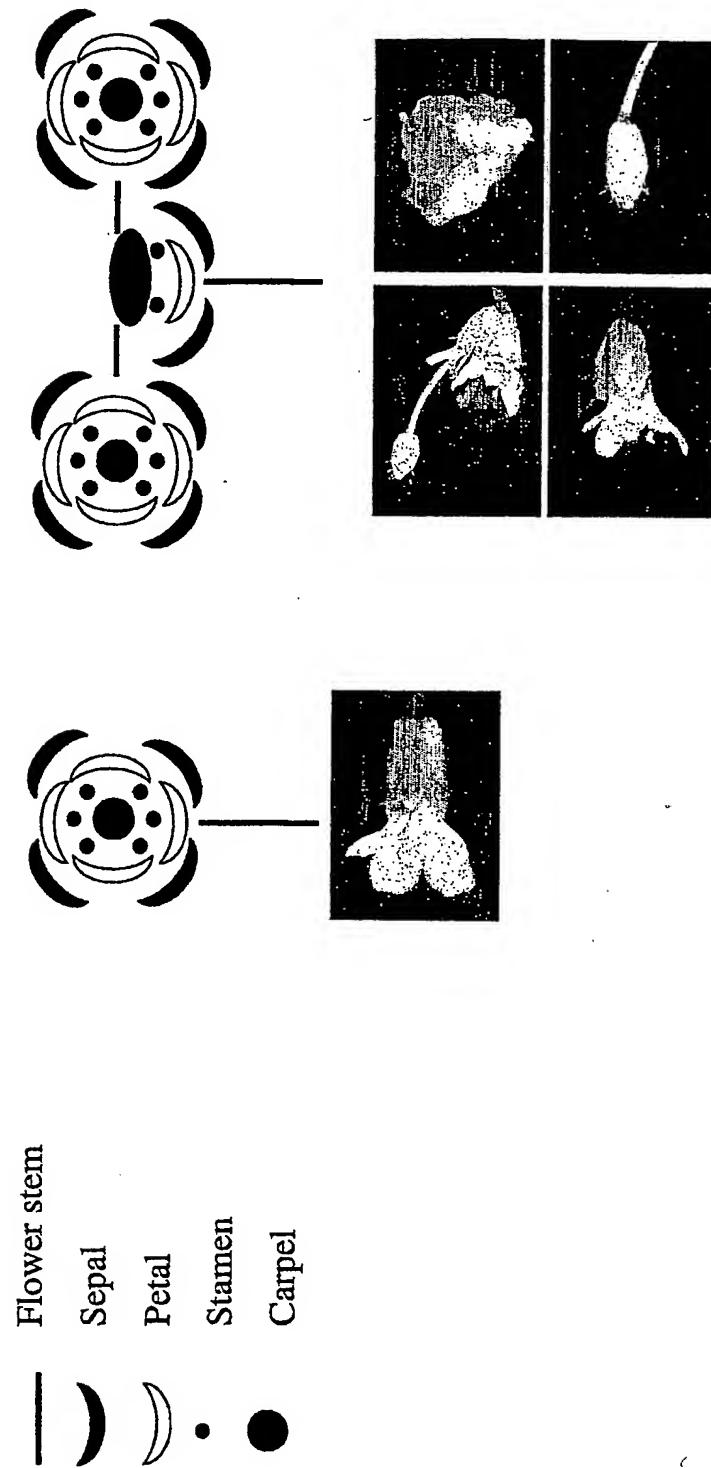
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Fig. 30

RKS10a T1 expression constructs in  
*Arabidopsis thaliana*



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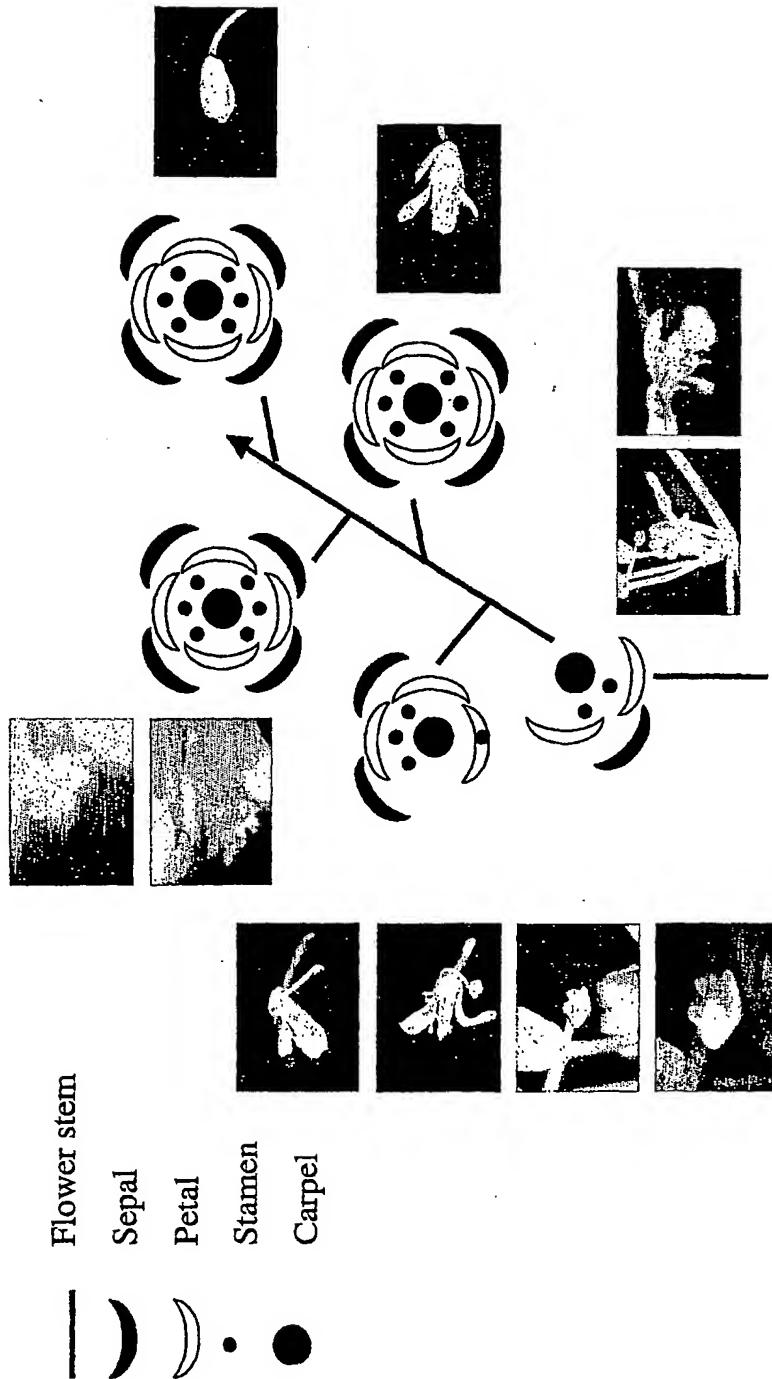
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Fig. 31

RKS10a T1-11 in  
*Arabidopsis thaliana*



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Fig. 32

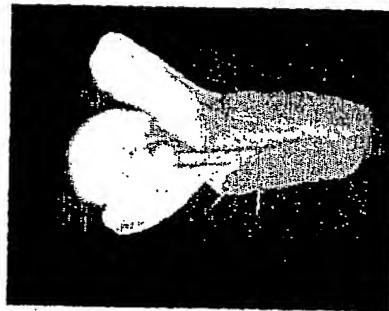
RKS10 antisense effects in  
*Arabidopsis thaliana*



detail flower RKS10a T1-11



RKS10a T1-11



pGreen 4K



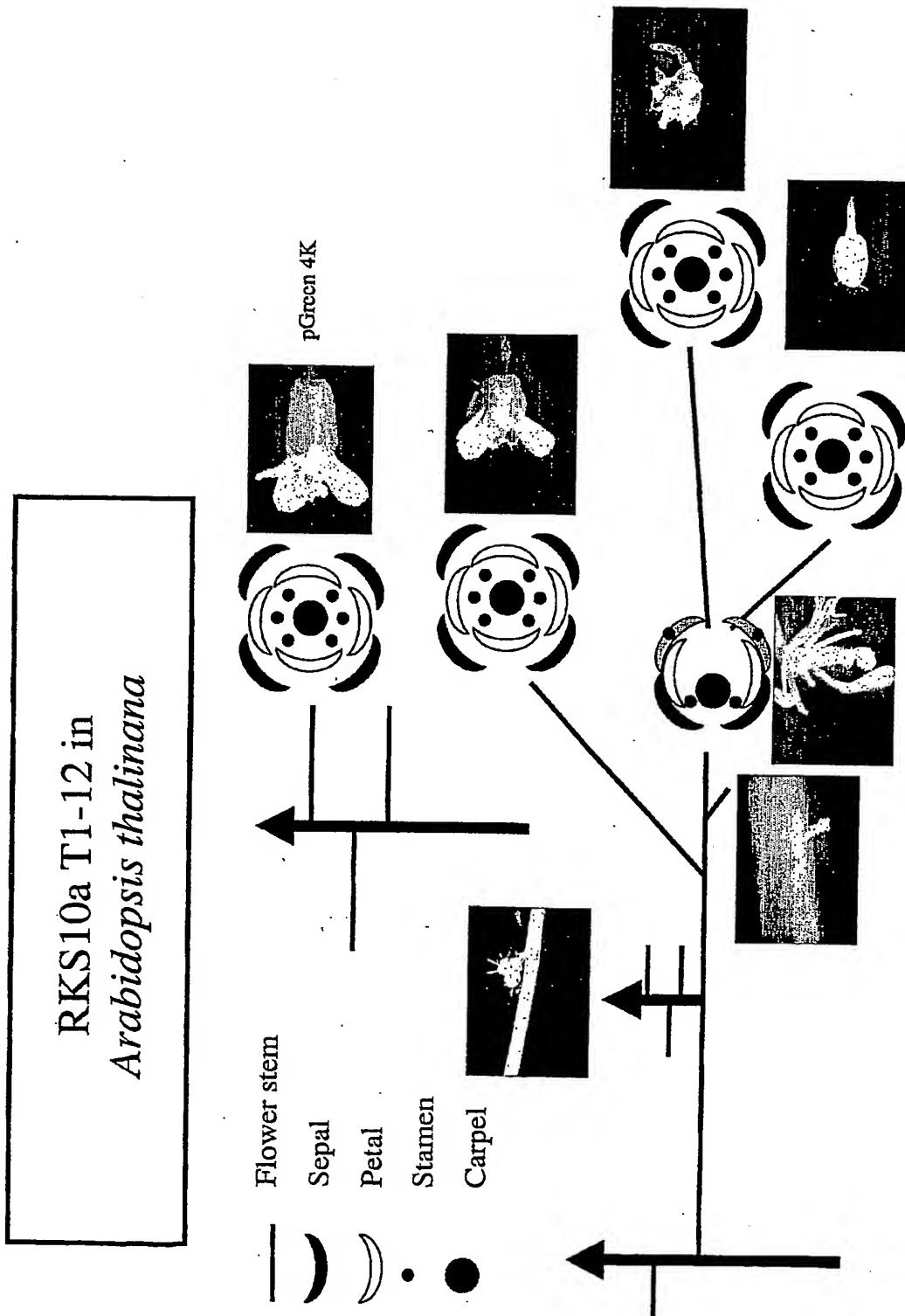
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Fig. 33



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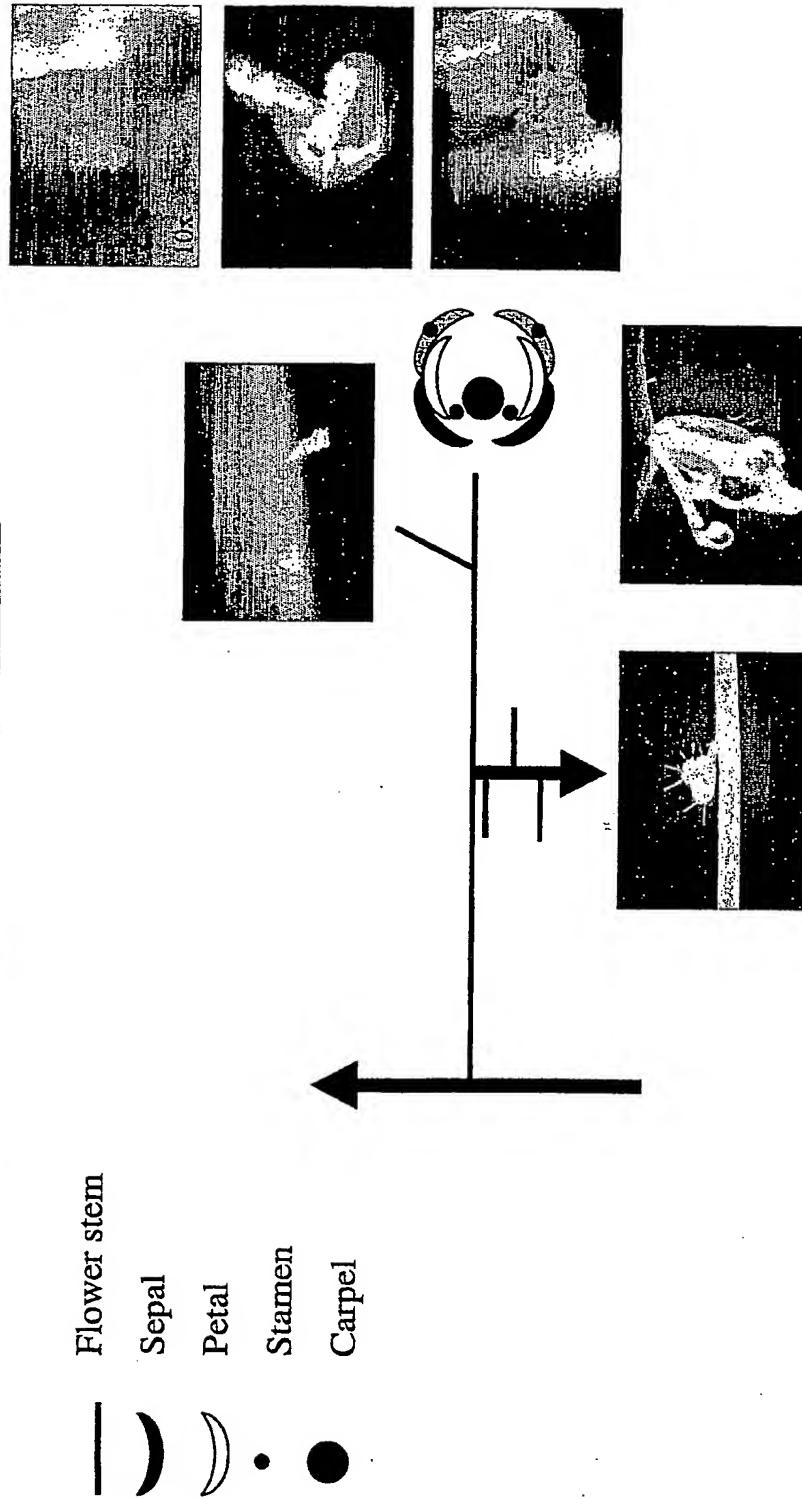
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Fig. 34

RKS10a T1-12 in  
*Arabidopsis thaliana*



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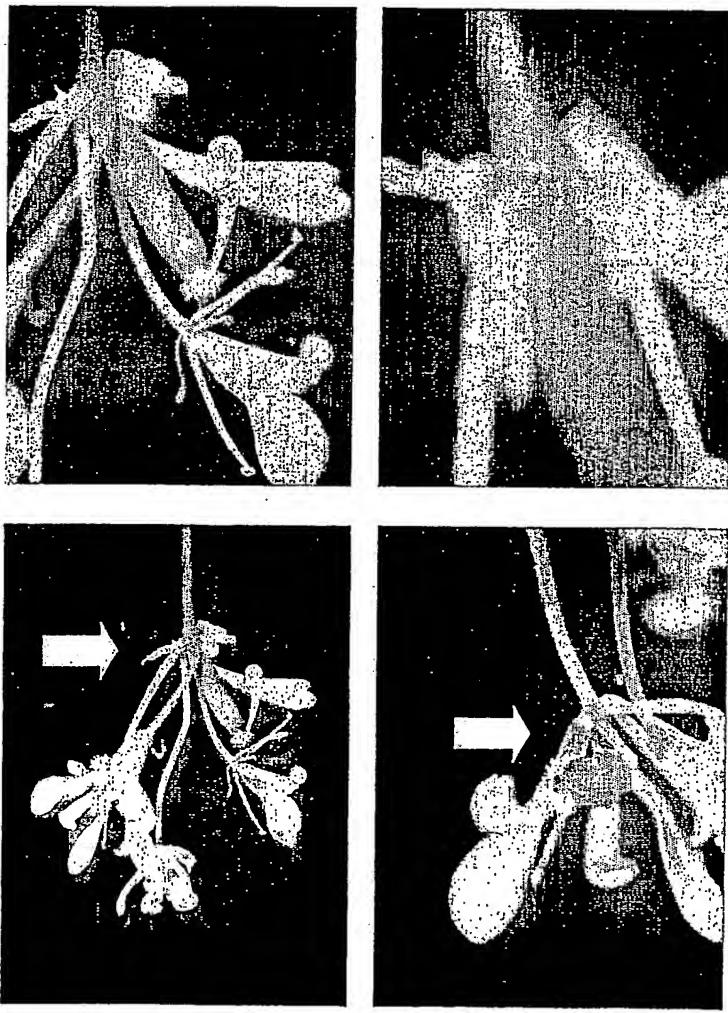
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Fig. 35

RKS13 regulates  
flower meristem identity in  
*Arabidopsis thaliana*



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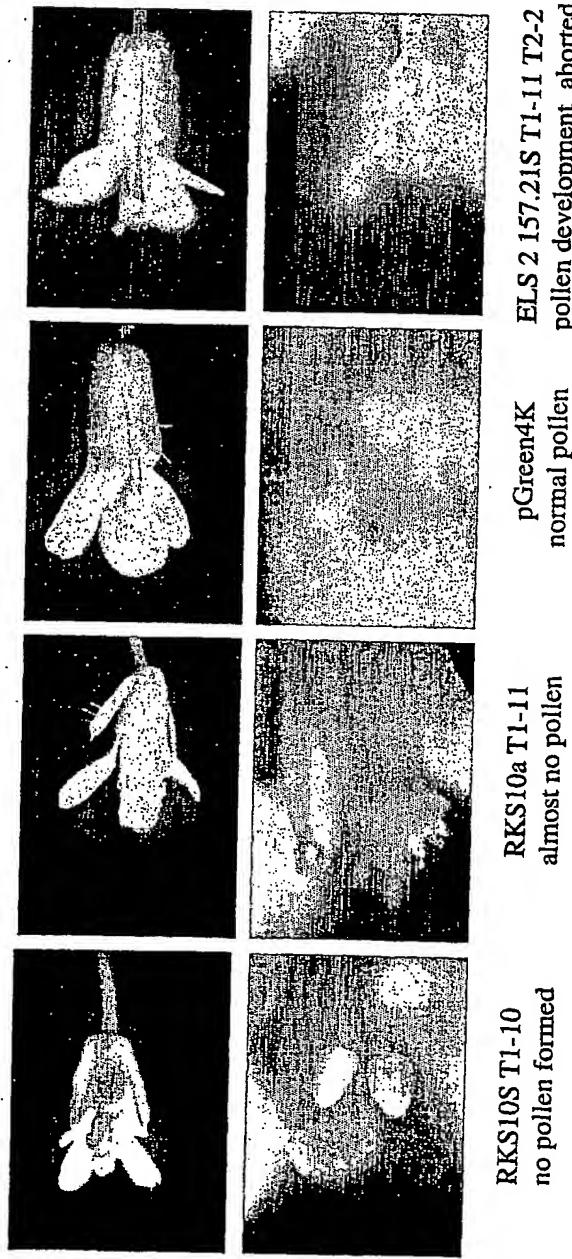
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Fig. 36

Male sterile transgenes in  
*Arabidopsis thaliana*



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